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APPLICATION NO. FILING DATE		LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/970,621	,621 10/05/2001		Takashi Tanaka	2001_1507A	1393	
513	7590	01/14/2004		EXAMINER		
WENDERO 2033 K STR	•	D & PONACK, L	WILSON, LEE D			
SUITE 800	EEI IN. W	•	ART UNIT	PAPER NUMBER		
WASHING	ron, dc	20006-1021		3723		
				DATE MAILED: 01/14/200-	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	•	Application No.	Applicant(s)	
		09/970,621 TANAKA ET AL.		
	Office Action Summary	Examiner	Art Unit	
		LEE D WILSON	3723	
Period fo	The MAILING DATE of this communication ap or Reply	ppears on the cover shee	t with the correspondence address	s
THE - Exte after - If the - If NO - Failt - Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period tree to reply within the set or extended period for reply will, by statureply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, mapply within the statutory minimum of will apply and will expire SIX (6) te, cause the application to become	ay a reply be timely filed f thirty (30) days will be considered timely. MONTHS from the mailing date of this commur ne ABANDONED (35 U.S.C. § 133).	nication.
1)[Responsive to communication(s) filed on	·		
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This	s action is non-final.		
3)	Since this application is in condition for allows closed in accordance with the practice under	ance except for formal n Ex parte Quayle, 1935	natters, prosecution as to the mer C.D. 11, 453 O.G. 213.	rits is
Disposit	ion of Claims			
4)🖂	Claim(s) 12-31 is/are pending in the application	on.		
	4a) Of the above claim(s) is/are withdra	awn from consideration.		
5)[Claim(s) is/are allowed.			
6)⊠	Claim(s) <u>12-31</u> is/are rejected.			
7)	Claim(s) is/are objected to.			
8)□	Claim(s) are subject to restriction and/	or election requirement.		
Applicat	ion Papers			
9)[The specification is objected to by the Examin	ier.		
10)	The drawing(s) filed on is/are: a) ac	cepted or b) objected	to by the Examiner.	
	Applicant may not request that any objection to the	e drawing(s) be held in abe	eyance. See 37 CFR 1.85(a).	
	Replacement drawing sheet(s) including the corre-	ction is required if the drav	ving(s) is objected to. See 37 CFR 1.	121(d).
11)	The oath or declaration is objected to by the E	Examiner. Note the attac	ched Office Action or form PTO-19	52.
Priority (under 35 U.S.C. §§ 119 and 120			
12)⊠ a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer	nts have been received.		
	3. Copies of the certified copies of the pricapplication from the International Burea See the attached detailed Office action for a lis	ority documents have be au (PCT Rule 17.2(a)). it of the certified copies	een received in this National Stag	
s 3	Acknowledgment is made of a claim for domes ince a specific reference was included in the fi 7 CFR 1.78. I) The translation of the foreign language page in the foreign language page page.	rst sentence of the spec	cification or in an Application Data	
14) 🗌 A	Acknowledgment is made of a claim for domes eference was included in the first sentence of t	tic priority under 35 U.S	.C. §§ 120 and/or 121 since a sp	ecific 1.78.
Attachmen	• •	_		
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🗌 Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)	

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DETAILED ACTION

Election/Restrictions

1. Election Restriction withdrawn.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 12-14 and 22-25 are rejected under 35 U.S.C. 102(a) as being anticipated by Katsumata et al (6161533).

Katsumata et al teach a method comprising of supplying a slurry from a feeding system (21), a tank (2), a pump (p22), and a controller (C1, the pump is suspended unless the device is operation with the detected values operation the system opening up and deliverying slurry, col.4, lines 36-39).

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In regard to claims 22, the claimed structure discloses an apparatus which is the result of applicants equation. The invention can have the slurry turned on and off at any time.

3. Claims 12-14 and 22-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Miyata et al (5799643).

Miyata et al teach a method comprising of supplying a slurry from a feeding system (21), a tank (2), a pump (p22), and a controller (C1, the pump is suspended unless the device is operation with the detected values operationg the system opening up and deliverying slurry, col.4, lines 31-34).

In regard to claims 22, the claimed structure discloses an apparatus which is the result of applicants equation. The invention can have the slurry turned on and off at any time.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

- 5. Claims 12-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over White (6475070) in view of Miyata et al (5799643).
- 1 White teaches a chemical mechanical polishing system comprising a slurry and polishing tables.
- 2. White does not teach a slurry having a tank, pump means, and control system.
- 3. Miyata et al a method comprising of supplying a slurry from a feeding system (21), a tank (2), a pump (p22), a controller (C1, the pump is suspended unless the device is operation with the detected values operationg the system opening up and deliverying slurry, col.4, lines 31-34) which is used to provide automation control of the slurry supply to allow for strict control over delivery.
- 4. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the White device by providing a slurry having a tank, pump means, and control system as taught by Miyata et al which is used to provide automation control of the slurry supply to allow for strict control over delivery.

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6. Claims 16-21 and 27-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over White (6475070) as applied to claims 12-15 above, and further in view of Laursen (US2002/0173232 A1).

- 1. White is discussed above.
- 2. White does not teach a method of mixing deionized water and slurries in a tank.
- 3. Laursen teaches a chemical mechanical polishing apparatus teaching the method of mixing deionized water and slurries which allows slurry concentrations to be altered using a deionized water. This reference also teaches inherently that it would be obvious to mix the slurry and deionized water in the slurry tank to obtain various slurry concentrations.
- 4. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the White device by providing mixing deionized water and slurries in a tank as taught by Laursen which allows slurry concentrations to be altered using a deionized water.

Response to Arguments

- 2. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.
 - a. The election restriction has been removed and all claims have been considered under art.

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Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lee Wilson whose telephone number is (703) 305-4094.

ldw

January 12, 2004

LEE D.WILSON PRIMARY EXAMINER